

001025

9306



COLUMBUS CHEMICAL INDUSTRIES INC.

N4335 TEMKIN ROAD
COLUMBUS, WISCONSIN 53925
(414) 623-2140
FAX (414) 623-2577

MATERIAL SAFETY DATA SHEET

Hazards (NFPA)		Fire	
4=Extreme		2	
3=High	Health	3	0
2=Moderate			Reactivity
1=Slight			
0=Least			Other

Emergency Phones: CHEMTREC: 800-424-9300

June 20, 1991

SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAME: Liquified Phenol - 90% Formula: C₆H₅OH + water
Other Designations: Carbolic Acid, Hydroxybenzene, Phenylic acid,

SECTION 2 - HAZARDOUS INGREDIENTS

	CAS No.	PERCENT	PEL/TWA	CARCINOGEN (OSHA, NTP, IARC)
Phenol	108-95-2	90%	5 ppm (skin)	no

SECTION 3 - CHEMICAL AND PHYSICAL PROPERTIES

Appearance: Water white liquid Boiling Pt.: >212°F
Odor: medicinal Freezing Point: 55°F (12.6°C)
pH: neutral Spec. Gravity(H₂O = 1): 1.065
Water Solubility: n/av Vapor Press, mm Hg, 50°C: n/av
Auto-Ignition Temperature: n/av Vapor Density (air = 1): 3.24 (phenol)

SECTION 4 - FIRE AND EXPLOSION HAZARDS

Flash Point(Op Cup): 165°F (74°C) Explosive Limits (Phenol): Lower 1.7% Upper 8.6%
Extinguishing Media: water fog, CO₂, foam(alcohol), halogens, dry chemical
Special Fire Firefighting Procedures and Hazards: Treat as combustible liquid. Vapors can be explosive if liquid is heated above its flash point. Keep unignited containers cool with water. Contaminated fire control waters may be corrosive, and should be diked or collected in ponds if possible, then disposed of properly. Use eye and skin protection and self-contained breathing apparatus.

SECTION 5 - REACTIVITY INFORMATION

Stable: X Unstable: Precautions: n/a
Incompatibility: alkyl benzene sulfonic acids, calcium hypochlorite,

SECTION 6 - HEALTH HAZARDS - PROTECTIVE MEASURES - FIRST AID
--

Inhalation: Excessive or repeated inhalation of concentrations over the PEL can cause irritation, other symptoms, and death (see other medical information below).
Wear NIOSH approved respirator or SCBA appropriate for concentration of phenol vapors or mist.
Remove to fresh air. Use artificial respiration if needed.

Skin: Corrosive. Pain, numbness, whitening, and burns occur unless promptly removed. Readily absorbed. (see other medical information below).
Wear protective phenol-resistant gloves, clothing, boots, and/or head covering as needed to prevent exposure. Have convenient safety showers.
Wash affected skin for 15 minutes with soap and water while removing contaminated clothing. Treat any burns.

Eyes: Causes severe eye irritation, with possible damage and blindness.
Wear splash- and dust-proof goggles. Have convenient eye-wash stations.
Flush with water for 15 minutes. Get prompt medical attention.

Ingestion: Irritating and corrosive to mouth and throat. Also see other medical information below.
Avoid swallowing. Wear face shield if face contact is likely.
Rinse mouth immediately. Drink large amounts of water. Do not induce vomiting, but if vomiting occurs drink more water. Do not give liquids to a very drowsy, convulsive, or unconscious person. Get medical attention immediately. (see other medical information below).

Other Medical Information: Phenol is readily absorbed into body through inhalation, skin contact, and ingestion, particularly when in liquid solutions. When sufficient amounts are absorbed, the effects can be increased and irregular heart rate, low blood pressure, difficult breathing, cough, and skin discoloration. Death can occur in minutes, usually due to respiratory failure. Effects may be aggravated for persons with kidney or hepatic diseases.

IN ALL CASES: GET PROMPT MEDICAL ATTENTION IF EFFECTS OCCUR.

Most likely routes of entry: skin, eyes, inhalation.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Spills and Leaks: Remove all sources of ignition, and provide ventilation. Small spills: take up with absorbent and put in closed container. Large spills: Dike around flow. Stop leak if possible. Do not flush residual liquid to ground if there is potential for surface or ground water pollution (use absorbents or remove soil to proper disposal). Do not flush to sewers. Personnel should wear eye, skin, and respiratory protection. RQ Phenol = 1000 lb. (= 1111 lb. of product).

Storage and Handling: Store in closed containers in a cool, well-ventilated area away from heat or ignition sources. Do not heat above 140°F (60°C). Prohibit eating or smoking where phenol is being used or handled. Wear impervious clothing as needed to prevent exposure when transferring material from drum or bulk containers.

Waste Disposal: In selecting the method of disposal, applicable local, state, and federal regulations should be consulted.

Empty Containers: Do not cut or weld on empty containers, or expose them to ignition sources before thorough cleaning. Clean before disposal.

SECTION 8 - REGULATORY INFORMATION

DOT (HM-181) (USA and Int'l) - Class & Label: 6.1, Poison
- Shipping Name: Phenol solutions, 6.1, UN2821, PGII, RQ

SARA Title III - This product contains a toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40CFR Part 372: Phenol, CAS No. 108-95-2, 90%.

While Columbus Chemical Industries, Inc. believes that the data contained herein are factual, they are not to be taken as a warranty or representation for which Columbus Chemical Industries, Inc. assumes legal responsibility. They are offered solely for your consideration, investigation. Any use of these data and information must be determined by the user to be in accordance with the applicable Federal, State, and Local laws and regulations.